

BATCH

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/626,731
 DATE: 10/04/2000
 TIME: 14:32:26
 Input Set : A:\626731.txt
 Output Set: N:\CRF3\10042000\I626731.raw

4 <110> APPLICANT: Co, Man Sung
 5 Vasquez, Maximiliano
 6 Carreno, Beatriz
 7 Celniker, Abbie Cheryl
 8 Collins, Mary
 9 Goldman, Samuel
 10 Gray, Gary S.
 11 Knight, Andrea
 12 O'Hara, Denise
 13 Rup, Bonita
 14 Veldman, Geertruida M.
 16 <120> TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH
 17 B7-2 AND METHODS OF TREATMENT THEREWITH
 20 <130> FILE REFERENCE: GI-5315
 22 <140> CURRENT APPLICATION NUMBER: 09/626,731
 23 <141> CURRENT FILING DATE: 2000-07-27
 25 <150> PRIOR APPLICATION NUMBER: 09/249,011
 26 <151> PRIOR FILING DATE: 1999-02-12
 28 <160> NUMBER OF SEQ ID NOS: 20
 30 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 32 <210> SEQ ID NO: 1
 33 <211> LENGTH: 405
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Murine anti-B7-2 heavy chain
 37 <220> FEATURE:
 38 <221> NAME/KEY: CDS
 39 <222> LOCATION: (1)...(405)
 40 <223> OTHER INFORMATION:
 47 <400> SEQUENCE: 1 48
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 50 1 5 10 15
 52 gtg cac tcc cag gtc cag ctg cag tct ggg cct gag ctg gtg agg 30 144
 53 Val His Ser Gln Val Gln Leu Gln Ser Gly Pro Glu Leu Val Arg 20 25 30
 54 1 20 25 30
 56 cct ggg gaa tca gtg aag att tcc tgc aag ggt tcc ggc tac aca ttc 192
 57 Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe 40 45
 58 35
 60 act gat tat gct ata cag tgg gtg aag cag agt cat gca aag agt cta 240
 61 Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu 55 60
 62 50
 64 gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac 288
 65 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn 70 75 80
 66 65
 68 cag aag ttt aag ggc aag gcc aca atg act gta gac aaa tcc tcc agc 95
 69 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser 85 90
 70

ENTERED

10/4/00

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72	aca	gcc	tat	atg	gaa	ctt	gcc	aga	ttg	aca	tct	gag	gat	tct	gcc	atc	336	
73	Thr	Ala	Tyr	Met	Glu	Leu	Ala	Arg	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Ile		
74				100				105				110						
76	tat	tac	tgt	gca	aga	gca	gag	gcc	tgg	tat	atg	gac	tac	tgg	ggt	caa	gga	384
77	Tyr	Tyr	Cys	Ala	Arg	Ala	Ala	Trp	Tyr	Met	Asp	Tyr	Trp	Gly	Gln	Gly		
78				115				120				125						
80	acc	tca	gtc	acc	gtc	tcc	tca										405	
81	Thr	Ser	Val	Thr	Val	Ser	Ser											
82				130								135						
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86	<211>	LENGTH:	135															
87	<212>	TYPE:	PRT															
88	<213>	ORGANISM:	Murine	anti-B7-2	heavy	chain												
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91	Met	Gly	Trp	Asn	Cys	Ile	Ile	Phe	Phe	Leu	Val	Thr	Thr	Ala	Thr	Gly		
92	1					5			10			15						
93	Val	His	Ser	Gln	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	Val	Arg		
94						20			25			30						
95	Pro	Gly	Glu	Ser	Val	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Thr	Phe		
96						35			40			45						
97	Thr	Asp	Tyr	Ala	Ile	Gln	Trp	Val	Lys	Gln	Ser	His	Ala	Lys	Ser	Leu		
98						50			55			60						
99	Glu	Trp	Ile	Gly	Val	Ile	Asn	Ile	Tyr	Tyr	Asp	Asn	Thr	Asn	Tyr	Asn		
100						65			70			75			80			
101	Gln	Lys	Phe	Lys	Gly	Lys	Ala	Thr	Met	Thr	Val	Asp	Lys	Ser	Ser	Ser		
102						85			90			95						
103	Thr	Ala	Tyr	Met	Glu	Leu	Ala	Arg	Ile	Thr	Ser	Glu	Asp	Ser	Ala	Ile		
104						100			105			110						
105	Tyr	Tyr	Cys	Ala	Arg	Ala	Ala	Trp	Tyr	Met	Asp	Tyr	Trp	Gly	Gln	Gly		
106						115			120			125						
107	Thr	Ser	Val	Thr	Val	Ser	Ser											
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113	<213>	ORGANISM:	Murine	anti-B7-2	light	chain												
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116	<221>	NAME/KEY:	CDS															
117	<222>	LOCATION:	(1)...(396)															
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121	Met	Asp	Ser	Gln	Ala	Gln	Val	Leu	Ile	Leu	Leu	Leu	Leu	Trp	Val	Ser		
122	1				5				10			15						
124	gtt	acc	tgt	ggg	gac	att	gtg	ctg	tca	cag	tct	cca	tcc	tcc	ctg	gct	96	
125	Gly	Thr	Cys	Gly	Asp	Ile	Val	Leu	Ser	Gln	Ser	Pro	Ser	Leu	Ala			
126						20			25			30						
128	gtg	tca	gca	gga	gag	aag	gtc	act	atg	agc	tgc	aaa	tcc	agt	cag	agt	144	
129	Val	Ser	Ala	Gly	Glu	Lys	Val	Thr	Met	Ser	Cys	Lys	Ser	Ser	Gln	Ser		
130						35			40			45						

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132	ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag	192
133	Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln	
134	50 55 60	
136	aaa cca ggg cag tct cct aaa ctg ctg atc tac tgg gca tcc act agg	240
137	Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg	
138	65 70 75 80	
140	gaa tct ggg gtc cct gat cgc ttc aca ggc agt gga tct ggg aca gat	288
141	Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp	
142	85 90 95	
144	ttc act ctc acc atc agc agt gtg cag gct gaa gac ctg gca gtt tat	336
145	Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr	
146	100 105 110	
148	tac tgc acg caa tct tat aat ctt tac acg ttc gga ggg ggg acc aag	384
149	Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Thr Lys	
150	115 120 125	
152	ctg gaa ata aaa	396
153	Leu Glu Ile Lys	
154	130	
157	<210> SEQ ID NO: 4	
158	<211> LENGTH: 132	
159	<212> TYPE: PRT	
160	<213> ORGANISM: Murine anti-B7-2 light chain	
162	<400> SEQUENCE: 4	
163	Met Asp Ser Gln Ala Gln Val Leu Ile Leu Leu Leu Trp Val Ser	
164	1 5 10 15	
165	Gly Thr Cys Gly Asp Ile Val Leu Ser Gln Ser Pro Ser Ser Leu Ala	
166	20 25 30	
167	Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser	
168	35 40 45	
169	Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln	
170	50 55 60	
171	Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg	
172	65 70 75 80	
173	Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp	
174	85 90 95	
175	Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr	
176	100 105 110	
177	Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Thr Lys	
178	115 120 125	
179	Leu Glu Ile Lys	
180	130	
182	<210> SEQ ID NO: 5	
183	<211> LENGTH: 405	
184	<212> TYPE: DNA	
185	<213> ORGANISM: Humanized murine anti-human B7-2 heavy chain	
187	<220> FEATURE:	
188	<221> NAME/KEY: CDS	
189	<222> LOCATION: (1)...(405)	
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192	atg ggt tgg aac tgt atc atc ttc ttt ctg gtt acc aca gct aca ggt	48
193	Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly	
194	1 5 10 15	
196	gtg cac tcc cag gtc cag ctg gtg cag tct ggg gct gag gtg aag aag	96
197	Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys	
198	20 25 30	
200	cct ggg agc tca gtg aag gtg tcc tgc aaa gct tcc ggc tac aca ttc	144
201	Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe	
202	35 40 45	
204	act gat tat gct ata cag tgg gtg aga cag gct cct gga cag ggc ctc	192
205	Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu	
206	50 55 60	
208	gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac	240
209	Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asn Thr Asn Tyr Asn	
210	65 70 75 80	
212	cag aag ttt aag ggc aag gcc aca atg act gta gac aag tcg acg acg	288
213	Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser	
214	85 90 95	
216	aca gcc tat atg gaa ctt agt tct ttg aga tct gag gat acg gcc gtt	336
217	Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val	
218	100 105 110	
220	tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa ggt	384
221	Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly	
222	115 120 125	
224	acc ctt gtc acc gtc tcc tca	405
225	Thr Leu Val Thr Val Ser Ser	
226	130 135	
229	<210> SEQ ID NO: 6	
230	<211> LENGTH: 135	
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232	<213> ORGANISM: Humanized murine anti-human B7-2 heavy chain	
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236	1 5 10 15	
237	Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys	
238	20 25 30	
239	Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe	
240	35 40 45	
241	Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu	
242	50 55 60	
243	Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn	
244	65 70 75 80	
245	Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser	
246	85 90 95	
247	Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val	
248	100 105 110	
249	Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly	
250	115 120 125	
251	Thr Leu Val Thr Val Ser Ser	

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Input Set : A:\626731.txt
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 255 <211> LENGTH: 396
 256 <212> TYPE: DNA
 257 <213> ORGANISM: Humanized murine anti-human B7-2 light chain
 259 <220> FEATURE:
 260 <221> NAME/KEY: CDS
 261 <222> LOCATION: (1)...(396)
 263 <400> SEQUENCE: 7
 264 atg gat tca cag gcc cag gtt ctt ata ttg ctg ctg cta tgg gta tct 48
 265 Met Asp Ser Gln Ala Gln Val Leu Ile Leu Leu Leu Leu Trp Val Ser
 266 1 5 10 15
 268 ggc acc tgt ggg gac att gtg ctg aca cag tct cca gat tcc ctg gct 96
 269 Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
 270 20 25 30
 272 gta agc tta gga gag agg gcc act att agc tgc aaa tcc agt cag agt 144
 273 Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
 274 35 40 45
 276 ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag 192
 277 Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
 278 50 55 60
 280 aaa cca ggg cag cct cct aaa ctg ctg atc tac tgg gca tcc act agg 240
 281 Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
 282 65 70 75 80
 284 gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct ggg aca gat 288
 285 Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 286 85 90 95
 288 ttc act ctc acc atc agc agt ctg cag gct gaa gac gtc gca gtt tat 336
 289 Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
 290 100 105 110
 292 tac tgc acg caa tct tat aat ctt tac acg ttc gga cag ggg acc aag 384
 293 Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys
 294 115 120 125
 296 gtg gaa ata aaa 396
 297 Val Glu Ile Lys
 298 130
 301 <210> SEQ ID NO: 8
 302 <211> LENGTH: 132
 303 <212> TYPE: PRT
 304 <213> ORGANISM: Humanized murine anti-human B7-2 light chain
 306 <400> SEQUENCE: 8
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 308 1 5 10 15
 309 Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
 310 20 25 30
 311 Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
 312 35 40 45
 313 Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
 314 50 55 60

VERIFICATION SUMMARY DATE: 10/04/2000
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